

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP2004/011124

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C12Q1/68

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C12Q

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, BIOSIS, EMBL, EMBASE

C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category * | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|------------|---|-----------------------|
| X | EP 0 288 088 A (TEIJIN LIMITED) 26 October 1988 (1988-10-26) claims 19,20 | 25-29 |
| X | US 6 235 723 B1 (DEAN NICHOLAS M) 22 May 2001 (2001-05-22) column 29, lines 32-34 column 31, lines 5-9 | 25-29 |
| A | HIGUCHI T ET AL: "POLYMORPHISM OF THE 5'-FLANKING REGION OF THE HUMAN TUMOR NECROSIS FACTOR (TNF)-ALPHA GENE IN JAPANESE" TISSUE ANTIGENS, MUNKSGAARD, COPENHAGEN, DK, vol. 51, no. 6, 1998, pages 605-612, XP008020598 ISSN: 0001-2815 | |

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Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

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Date of the actual completion of the international search

24 February 2005

Date of mailing of the international search report

10/03/2005

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| C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT | | |
|--|--|-----------------------|
| Category ° | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
| A | SMITH ET AL: "Contrasting genetic influence of CCR2 and CCR5 variants on HIV -1 infection and disease progression" SCIENCE, AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE,, US, vol. 277, 15 August 1997 (1997-08-15), pages 959-965, XP002099015 ISSN: 0036-8075 ----- | |
| A | HOLWEG C T J ET AL: "Clinical impact of cytokine gene polymorphisms in heart and lung transplantation" JOURNAL OF HEART AND LUNG TRANSPLANTATION, MOSBY-YEAR BOOK, INC., ST LOUIS, MO, US, vol. 23, no. 9, September 2004 (2004-09), pages 1017-1026, XP004595231 ISSN: 1053-2498 ----- | |
| A | ABRAHAM L J ET AL: "HAPLOTYPIC POLYMORPHISMS OF THE TNFB GENE" IMMUNOGENETICS, vol. 33, no. 1, 1991, pages 50-53, XP009041878 ISSN: 0093-7711 ----- | |
| A | LEE BENHUR ET AL: "Influence of the CCR2-V64I polymorphism on human immunodeficiency virus type 1 coreceptor activity and on chemokine receptor function of CCR2b, CCR3, CCR5, and CXCR4" JOURNAL OF VIROLOGY, vol. 72, no. 9, September 1998 (1998-09), pages 7450-7458, XP002312893 ISSN: 0022-538X ----- | |
| A | WO 02/089796 A (NOVARTIS AG; CHIBOUT, SALAH-DINE; CORDIER, ANDRE; KEHREN, JEANNE; MOOR) 14 November 2002 (2002-11-14) ----- | |

INTERNATIONAL SEARCH REPORT

ation on patent family members

International Application No

PCT/EP2004/011124

| Patent document cited in search report | | Publication date | Patent family member(s) | Publication date |
|---|----|---------------------|----------------------------|---------------------|
| EP 0288088 | A | 26-10-1988 | DE 3888224 D1 | 14-04-1994 |
| | | | DE 3888224 T2 | 21-07-1994 |
| | | | EP 0288088 A2 | 26-10-1988 |
| | | | JP 2001552 A | 05-01-1990 |
| | | | JP 2647427 B2 | 27-08-1997 |
| | | | US 5075236 A | 24-12-1991 |
| US 6235723 | B1 | 22-05-2001 | US 5916807 A | 29-06-1999 |
| | | | US 5885970 A | 23-03-1999 |
| | | | US 5959096 A | 28-09-1999 |
| | | | US 5882927 A | 16-03-1999 |
| | | | US 5922686 A | 13-07-1999 |
| | | | US 5703054 A | 30-12-1997 |
| | | | US 5948898 A | 07-09-1999 |
| | | | AU 4847900 A | 05-12-2000 |
| | | | EP 1185696 A1 | 13-03-2002 |
| | | | JP 2002543853 T | 24-12-2002 |
| | | | WO 0070091 A1 | 23-11-2000 |
| | | | US 6339066 B1 | 15-01-2002 |
| | | | US 6537973 B1 | 25-03-2003 |
| | | | US 6153599 A | 28-11-2000 |
| | | | US 2003148989 A1 | 07-08-2003 |
| | | | US 6117847 A | 12-09-2000 |
| | | | AU 710972 B2 | 30-09-1999 |
| | | | AU 7007198 A | 30-07-1998 |
| | | | AU 688354 B2 | 12-03-1998 |
| | | | AU 7398194 A | 06-02-1995 |
| | | | BR 9406931 A | 10-09-1996 |
| | | | CA 2166058 A1 | 19-01-1995 |
| | | | EP 0714449 A1 | 05-06-1996 |
| | | | FI 960089 A | 07-03-1996 |
| | | | HU 75834 A2 | 28-05-1997 |
| | | | JP 8507929 T | 27-08-1996 |
| | | | JP 3553068 B2 | 11-08-2004 |
| | | | JP 3349500 B2 | 25-11-2002 |
| | | | JP 2001224386 A | 21-08-2001 |
| | | | JP 3349501 B2 | 25-11-2002 |
| | | | JP 2001231579 A | 28-08-2001 |
| | | | JP 3349502 B2 | 25-11-2002 |
| | | | JP 2001224387 A | 21-08-2001 |
| | | | KR 211424 B1 | 02-08-1999 |
| | | | NO 960079 A | 29-02-1996 |
| | | | NZ 269653 A | 19-12-1997 |
| | | | WO 9502069 A1 | 19-01-1995 |
| | | | US 5681747 A | 28-10-1997 |
| | | | US 6015892 A | 18-01-2000 |
| | | | AT 212063 T | 15-02-2002 |
| | | | AU 675638 B2 | 13-02-1997 |
| | | | AU 3802593 A | 21-10-1993 |
| | | | CA 2132094 A1 | 30-09-1993 |
| | | | DE 69331467 D1 | 21-02-2002 |
| | | | DE 69331467 T2 | 07-11-2002 |
| | | | DK 672180 T3 | 04-03-2002 |
| | | | EP 1126025 A2 | 22-08-2001 |
| | | | EP 1310555 A2 | 14-05-2003 |
| | | | EP 0672180 A1 | 20-09-1995 |
| | | | ES 2170065 T3 | 01-08-2002 |

INTERNATIONAL SEARCH REPORT

ation on patent family members

International Application No

PCT/EP2004/011124

| Patent document cited in search report | | Publication date | Patent family member(s) | Publication date |
|---|---|---------------------|----------------------------|---------------------|
| WO 02089796 | A | 14-11-2002 | CA 2442969 A1 | 14-11-2002 |
| | | | EP 1389108 A2 | 18-02-2004 |
| | | | WO 02089796 A2 | 14-11-2002 |
| | | | US 2003119797 A1 | 26-06-2003 |
